

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the application of inventor(s):

YADEGAR et al.



Serial Number: 10/656,067

Examiner: Not assigned yet

Filed: September 5, 2003

Art Unit: Not assigned yet

Confirmation No.: Not assigned yet

For: **A METHOD FOR CONTENT DRIVEN IMAGE COMPRESSION**

MAIL STOP NON FEE AMENDMENT

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Dear Sir:

In accordance with 37 C.F.R. §§ 1.56, 1.97, and 1.98, disclosure is made of the following known related art listed in the accompanying Information Disclosure Citation, Form PTO-1449. According to the announcement made via the USPTO web site entitled "Information Disclosure Statements May Be Filed Without Copies of U.S. Patents and Published Applications in Patent Applications filed after June 30, 2003," no copies of the U.S. patent references are enclosed.

Applicants hereby cite the patents and/or publications on the attached form for consideration by the Patent and Trademark Office in regard to the claimed invention. By this notice, Applicants request that the Patent and Trademark Office make of record the documents listed. No representation is made that more pertinent material is not available or should not be considered by the Examiner. It is expected that the Patent and Trademark Office will

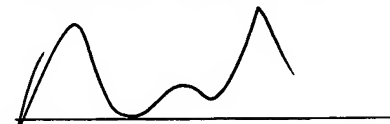
independently conduct a complete search of appropriate prior art. Furthermore, no admission is being made that these documents are prior art, and Applicants reserve the right to challenge any such conclusion.

Reference AC (page 1) for *"Information, Uncertainty and The Utility of Categories,"* M. Gluck and J. Corter, in Proc. Annual Conference of the Cognitive Science Society, Irvine, CA., was unavailable and its listing in the Information Disclosure Citation is Applicants' attempt to conform to their duty of good faith. The same is similarly true for reference AE (page 1) for *"Models of Incremental Concept Formation,"* J. H. Gennari, P. Langley, and D. Fisher, Artificial Intelligence, 40: 11-61, 1990. The same is similarly true for reference AH (page 3) for Frost & Sullivan, *US 3D Imaging Markets*, January 22, 2003.

Should there be any remaining or further questions, the Examiner is requested to please contact the undersigned directly. It is not believed that any additional fees are due. However, in the event additional fees are due, the Examiner is hereby authorized to charge Applicant's Attorney's Deposit Account No. 03-2030.

Respectfully submitted,

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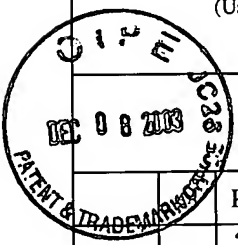
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Form PTO-1449 (Rev. 8-83)		U.S. Department of Commerce Patent and Trademark Office		Atty. Docket No. 03-12478	Serial No. 10/656,067
INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)				Applicant YADEGAR et al.	
				Filing Date 09/05/2003	Group
 OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)					
		Project Brief, http://jazz.nist.gov/atpcf/prjbriefs/prjbrief.cfm?ProjectNumber=00-00-4936			
	AB	"Knowledge-based training of artificial neural networks for autonomous robot driving," D. A. Pomerleau, in Robot Learning, Boston: Kluwer Academic Publishers, J. Connel and S. Mahadevan (Eds.), 1993			
	AC	"Information, Uncertainty and The Utility of Categories," M. Gluck and J. Corter, in Proc. Annual Conference of the Cognitive Science Society, Irvine, CA.			
	AD	"Knowledge Acquisition Via Incremental Conceptual Clustering," D. Fisher, Machine Learning, 2 (2), 139-172, 1987.			
	AE	"Models of Incremental Concept Formation," J. H. Gennari, P. Langley, and D. Fisher, Artificial Intelligence, 40: 11-61, 1990.			
	AF	"Vector Quantization," R.M. Gray, IEEE ASSP Magazine, Vol. 1, pp. 4-29, April 1984.			
	AG	"Image classification by a two dimensional Hidden Markov Model," J. Li, A. Najami, Robert M. Gray, IEEE Transactions on Signal Processing, February 2000.			
	AH	"Multiresolution image classification by hierarchical modeling with two dimensional hidden Markov models," J. Li, R.M. Gray, and R.A. Olshen, IEEE Transactions on Information Theory, Vol. 46, pp. 1826-1841, August 2000.			
	AI	"Maximum likelihood from incomplete data via the EM algorithm," A. Dempster, N. Laird, and D. Rubin, Journal of the Royal Statistical Society, Series B, 39 (1):1-38, 1977			
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	AL	"IRM: Integrated region matching for image retrieval," Li, J. Z. Wang, G. Wiederhold, Proc. 8th ACM, Multimedia Conference, pp. 147-156, Los Angeles, USA, 2000.			
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	AO	"The EM algorithm for mixtures of factor analyzers," Z. Ghahramani and G. E. Hinton, Tech. Report CRG-TR-96-1, Univ. of Toronto, 1997.			
	AP	"SMEM algorithm for Mixture Models," N. Uedam, R. Nakano, Z. Ghahramani, G. E. Hinton, In Advances in Neural Information Processing Systems, volume 11, 1999.			
	AQ	"Non-linear Bayesian Image Modelling," C. M. Bishop and J. M. Winn. In Proc. 6th European Conference on Computer Vision, ECCV, Springer (2000) 1, 3-17, 2000.			
	AR	"New Trends in Image and Video Compression," Torres, L., and Delp, E., X European Signal Processing Conference, Tampere, Finland, September 4-8, 2000.			
	AS	"A Subspace Approach to Layer Extraction," Ke, Q., and Kanade, T., IEEE International Conference on Computer Vision and Pattern Recognition (CVPR 2001), December, 2001.			
Examiner:			Date Considered:		

* Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)					
AA	"Tiling and adaptive image compression," Lee, W.S., IEEE Transactions on Information Theory, 46(5):1789-1799, 2000.				
AB	P. Schröder and W. Sweldens, <i>Digital Geometry Processing</i> , in Sixth Annual Symposium on Frontiers of Engineering, pp.41-44, 2001.				
AC	A. Lee, W. Sweldens, P. Schröder, L. Cowsar, and D. Dobkin, <i>MAPS: Multiresolution adaptive parameterization of surfaces</i> , Computer Graphics (SIGGRAPH '98 Proceedings), pages 95--104, 1998.				
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AE	R. Pajarola and J. Rossignac, <i>Compressed progressive meshes</i> , Technical Report GIT-GVU-99-05, GVU Center, Georgia Institute of Technology, 1999.				
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AN	T. Gerstner and R. Pajarola, <i>Topology Preserving and Controlled Topology Simplifying Multiresolution Isosurface Extraction</i> , IEEE Transactions on Visualization and Computer Graphics, 2000.				
AO	Z. Wood, M. Desbrun, P. Schröder and D.E. Breen: <i>Semi-Regular Mesh Extraction From Volumes</i> , Visualization 2000 Conference Proceedings, pp. 275-282.				
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	AA	G.M. Nielson and B. Hamann: The Asymptotic Decider: Resolving the Ambiguity in Marching Cubes, Proceedings of Visualization '91, IEEE Computer Society Press, pp. 83-90, 1991.					
	AB	CyberEdge, <i>The Market for Visual Simulation/Virtual Reality Systems</i> , Oct 2002.					
	AC	S.I. Erwin, "Forecast is Rosy for Visual Simulation Industry," National Defense Magazine, Nov 2001.					
	AD	Daratech, Press Release, Nov 14, 2002, http://www.daratech.com/pressroom/releases/021106.html					
	AE	H. Tabatabaie, "Imaging and the Enterprise," Health Management Technology, Nov 2001.					
	AF	"C4.5: Programs for Machine Learning," J. R. Quinlan, San Mateo, CA: Morgan Kaufmann, 1993.					
	AG	U. Jasnoch, V. Coors, U. Kretschmer, <i>Applications of 3D GIS</i> , 2000, http://www.giscience.org/GIScience2000/posters/125-Jasnoch.pdf					
	AH	Frost & Sullivan, <i>US 3D Imaging Markets</i> , Jan 22, 2003.					
	AI						
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